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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/761,332	01/22/2004	Chiao Chung Huang	BHT-3167-175	2688
75	590 06/22/2005		EXAMINER	
BRUCE H. TROXELL			EDWARDS, LAURA ESTELLE	
SUITE 1404 5205 LEESBUI	RG PIKE		ART UNIT .	PAPER NUMBER
FALLS CHURCH, VA 22041			1734	

DATE MAILED: 06/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
Office Action Summany	10/761,332	HUANG, CHIAO CHUNG		
Office Action Summary	Examiner	Art Unit		
The MAN INC DATE of this communication and	Laura Edwards	1734		
The MAILING DATE of this communication app Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY		•		
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>04 Mar</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ⊠ Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) 1-7 is/are withdrawn f 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 8-14 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	from consideration.	·		
Application Papers		•		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 22 January 2004 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	a) \boxtimes accepted or b) \square objected drawing(s) be held in abeyance. See on is required if the drawing(s) is object.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Applicati ity documents have been receive i (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da	ate		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	atent Application (PTO-152)			

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Election/Restrictions

Applicant's election of Group II, claims 8-14 in the reply filed on 5/4/05 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Specification

The disclosure is objected to because of the following informality: on page 6, line 11, "FIG. 7A" should be changed to --FIG. 7 B--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

Claims 8-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, Applicant recites a carrier plate for bearing or holding a glass substrate and then proceeds to provide details to the substrate in the present claims as well as in depending claims 9-14. It is unclear whether Applicant intends to claim the substrate in combination with the apparatus. Clarification is necessary.

Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 8-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over ASPA (the Admitted State of the Prior Art) in view of Kido et al (JP2003-149645).

The ASPA, as set forth in the instant specification on pages 1-4 and in Figs. 1-4, teaches or suggests a rubbing apparatus for LCD comprising the combination of a carrier plate for bearing a glass substrate having an on top alignment film thereon, the substrate including a visible region and an invisible region, a conveying device for transporting the carrier plate having the substrate thereon, and a rubbing roller rotating in a clockwise direction at an in-stream direction the same as the predetermined direction of the alignment film of the substrate, the rubbing roller having a cloth thereon to rub the alignment film. The ASPA does not teach or suggest the rubbing roller rotating in a counterclockwise or inverse direction on the alignment film on the substrate. However, it was known in the art, at the time the invention was made, to provide a rubbing roller rotating in a counterclockwise or inverse direction on the alignment film

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on the substrate as evidenced by Kido et al (see abstract, Fig. 2). It would have been obvious to one of ordinary skill in the art, to provide an inverse rubbing roller as taught by Kido et al in the apparatus of the ASPA in place of the clockwise rotating rubbing roller as an alternative rubbing apparatus for alignment of the crystals on the substrate. It is within the purview of one skilled in the art seeking to align the crystals on the substrate during the manufacture of a liquid crystal display device to utilize either a clockwise or counterclockwise rotating rubbing roller.

With respect to claims 9-14, the glass substrate including any limitations thereto have been given no patentable weight because the substrate has not been read as a structural limitation with respect to the apparatus as claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura Edwards whose telephone number is (571) 272-1227. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura Edwards Primary Examiner Art Unit 1734

Le June 20, 2005